

René D. Clark

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EDUCATION

Rutgers University, New Brunswick, NJ **Cumulative GPA:** 4.00/4.00

Ph.D. in Ecology & Evolution (Expected May 2023)

- **Dissertation Title:** Spatial and temporal patterns of adaptation and adaptive potential in a changing ocean
- **Advisor:** Malin Pinsky, Ph.D.
- **Committee Members:** Debashish Bhattacharya, Ph.D., Holly Kindsvater Ph.D & Peter Smouse, Ph.D.

Saint Joseph's University, Philadelphia, PA **Cumulative GPA:** 3.95/4.00

M.S. in Biology – with Thesis (May 2017)

- **Thesis Title:** The effect of microtopography on blackfly larval settlement & an analysis of female postcopulatory behavior in *Drosophila suzukii*
- **Advisor:** Jonathan Fingerut Ph.D.
- **Committee Members:** Scott McRobert Ph.D. & Matthew Nelson Ph.D.

Pennsylvania State University, University Park, PA **Cumulative GPA:** 3.98/4.00

B.S. in Biology – Ecology Option (May 2014)

- Graduated with Highest Honors (top 10 students in program)

PUBLICATIONS

Bold is self. *Italicized* is undergraduate mentee.

2022

Anthony Snead & **René D. Clark**. (2022) The biological hierarchy, time, and temporal 'omics in evolutionary biology: A perspective. *Integrative and Comparative Biology*. (doi:10.1093/icb/icac138)

2021

René D. Clark, Matthew L. Aardema, Peter Andolfatto, Paul H. Barber, Akihisa Hattori, Jennifer A. Hoey, Humberto R. Montes Jr. & Malin L. Pinsky. (2021) Genomic signatures of spatially divergent selection at clownfish range margins. *Proceedings of the Royal Society B: Biological Sciences*, **288**:20210407. (doi:10.1098/rspb.2021.0407)

Zoë J. Kitchel, R. M. W. J. Bandara, Jaelyn T. Bos, **René D. Clark**, Daniel L. Forrest, Malin L. Pinsky. (2021) Book Review: Ocean Recovery: A Sustainable Future for Global Fisheries? *Fisheries*. (doi:10.1002/fsh.10580)

2020

René D. Clark, Marissa DiPiero, Jonathan T. Fingerut, & Scott P. McRobert. (2020) An analysis of female postcopulatory behavior in *Drosophila suzukii* and *Drosophila biarmipes*. *Journal of Insect Behavior*, **33**:193-200. (doi:10.1007/s10905-020-09761-x)

2017

René D. Clark. (2017) The effect of micro-topography on *Simulium tribulatum* larval settlement and recruitment & An analysis of female postcopulatory behavior in *Drosophila suzukii* and *Drosophila biarmipes*. Saint Joseph's University, Philadelphia, PA. (Master's Thesis – print edition)

IN PREPARATION

Marial Malabag, **René D. Clark** & Malin L. Pinsky. The effect of reproductive traits on the maintenance of genetic diversity in marine species. (pre-print available upon request)

Eric Garcia, Jemalyn Baldisimo, **René D. Clark**, Iván Lopez, Brendan N. Reid, Roy Roberts, John Whalen & Chris E. Bird. A comparison of *de novo* genome assemblers using whole-genome shotgun short reads. (pre-print available upon request)

René D. Clark & Malin L. Pinsky. Exploring global patterns of marine genetic diversity. (pre-print available upon request)

René D. Clark, Brendan N. Reid, Anthony Snead, Kyra Fitz, Eric Garcia, Kyle Jaynes, Allyson S. Sawkins, John Whalen & Malin L. Pinsky. The practice and promise of temporal genomics for measuring evolutionary responses to global change. (pre-print available upon request)

TEACHING EXPERIENCE

INSTRUCTION

Teaching Assistant, Biological Research Lab January – May 2021
School of Biological Sciences, Rutgers University

Teaching Assistant, Conservation Biology January – May 2020, 2021
Ecology, Evolution, and Natural Resources Department, Rutgers University

Head Teaching Assistant, Principles of Biology August 2020 – December 2020
School of Biological Sciences, Rutgers University

Ecology Teacher, Little Owls Enrichment 2018-present
Cranbury, NJ

GeoKids Fellow, Saint Joseph's University 2015 – 2017
Philadelphia School District, Philadelphia PA

Science Camp Teacher, Ross Twp. Summer Program June – July 2014, 2015 & 2017
Ross Township, Pittsburgh PA

AmeriCorps Member, City Year
Philadelphia School District, Philadelphia PA

August 2014 – June 2015

Teaching Assistant, Biology 427 (Evolution)
Biology Department, Pennsylvania State University

August – December 2013

LECTURES & WORKSHOPS

Instructor, Bioinformatics & Genomics Workshop
Silliman University, Dumaguete Philippines

June 2018, 2019, 2022

Guest lecture, Ecological Data Analysis (Instructor: Alexa Fredston)

March, April 2022

Guest lecture, Conservation Biology (Instructor: Rae Winfree)

April 2020, 2021

Guest lecture, Molecular Ecology (Instructor: Malin Pinsky)

April 2019

MENTORING

2020 - 2022: Rutgers University undergraduate, Marial Malabag, "The effect of reproductive traits on the maintenance of genetic diversity in marine species."

2021: North Hills High School senior, Daniel Ross-Miller, "Genetic diversity between populations of *Amphiprion clarkii*"

*1st place in regional Pennsylvania Junior Academy of Science (PJAS) competition

*Special award in state PJAS competition

2019 - 2020: Rutgers University undergraduate, Adriana Chumacero, "Reproductive biology of the yellow-tail barracuda in the Philippines."

2018 - 2020: Rutgers University undergraduate, Marhuma Zaman, "An analysis of gut and gill microbial diversity in *Leiognathus equulus*."

2016 - 2017: St. Joseph's University undergraduate, Marissa DiPiero, "An analysis of reproductive behavior in *Drosophila suzukii*."

GRANTS, HONORS, & AWARDS

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| CRRSAA/HEERF Doctoral Advancement Award (\$30,000) | 2021 |
| RCN for Evolution in Changing Seas Working Group Grant (\$16,000) | 2020 |
| Conference Travel Award (\$500) | 2019 |
| Ecology & Evolution Small Grant (\$1000) | 2018 |
| SEBS Graduate School Excellence Fellowship (\$30,000) | 2017 - 2018 |
| Sigma Xi Honors Society | 2017 |
| Outstanding Student Presentation, NABFA | 2017 |
| Saint Joseph Travel Award (\$300) | 2017 |
| GeoKids Fellowship, Saint Joseph's University (\$40,000) | 2015 – 2017 |
| Phi Kappa Phi Honors Society | 2013 – 2015 |
| Evan Pugh Scholar Senior Award, Pennsylvania State University | 2014 |
| Undergraduate Research Grant, Pennsylvania State University | 2013 & 2014 |
| Evan Pugh Scholar Junior Award, Pennsylvania State University | 2013 |

PROFESSIONAL & RESEARCH EXPERIENCE

Graduate Student Researcher, Global Change Ecology & Evolution Lab 2017 – Present
Ecology & Evolution Graduate Program, Rutgers University
New Brunswick, NJ

Graduate Student Researcher, Fingerut Lab 2015 – 2017
Biology Graduate Program, Saint Joseph's University
Philadelphia, NJ

Undergraduate Research Assistant, Baums Lab August 2012 – January 2014
Biology Department, Pennsylvania State University
State College, PA

Animal Husbandry Intern, Sea Turtles & Seahorses June – August 2012
Pittsburgh Zoo & PPG Aquarium
Pittsburgh, PA

Laboratory Intern, Telecardia Inc. May – August 2011
Pittsburgh PA

PRESENTATIONS

Bold is self. *Italicized* is undergraduate mentee.

2022

René Clark. Temporal Genomics. *Training & Integration Workshop – RCN for Evolution in Changing Seas*, Portsmouth NH. August 2022 (**Invited talk**)

René Clark. Fisheries: U.S. & Abroad. *University of Pittsburgh Sustainability Seminar Series*, Pittsburgh PA. April 2022 (**Invited talk**)

René Clark. Large-scale patterns of adaptation and adaptive potential in a changing ocean. *St. Joseph's University Biology Seminar Series*, Philadelphia PA. March 2022 (**Invited talk**)

2021

René Clark. The role of fishing as a driver of genomic change in tropical near-shore fish populations. *Rutgers Ecology & Evolution Graduate Student Association Seminar*, New Brunswick NJ. October 2021

René Clark & Malin Pinsky. Genomic signatures of spatially divergent selection at clownfish range margins. *Evolution Conference*, Virtual. June 2021 (faux-live talk)

2020

René Clark & Malin Pinsky. Exploring global patterns of marine genetic diversity. *Rutgers Ecology & Evolution Graduate Student Association Seminar*, New Brunswick NJ. October 2020

2019

René Clark & Malin Pinsky. Genomic signatures of spatially divergent selection in *Amphiprion clarkii* populations across a thermal gradient. *Ecological Society of America Conference*, Louisville KY. August 2019 (poster presentation)

René Clark & Malin Pinsky. Genomic signatures of spatially divergent selection in *Amphiprion clarkii* populations across a thermal gradient. *Rutgers Ecology & Evolution Graduate Student Association Seminar*, New Brunswick NJ. April 2019

2017

René Clark. A tale of two flies: The effect of micro-topography on *Simulium tribulatum* larval settlement and recruitment & An analysis of female postcopulatory behavior in *Drosophila suzukii* and *Drosophila biarmipes*. *Master's Thesis Public Defense*, Saint Joseph's University, Philadelphia, PA. June 2017

René Clark & Marissa DiPiero. Reproductive behavior in *Drosophila suzukii* (update). *Sigma Xi Research Symposium*, Saint Joseph's University, Philadelphia, PA. April 2017 (poster presentation)

René Clark. The effect of micro-topography on *Simulium tribulatum* larval settlement and recruitment. *North American Black Fly Association Conference*, Harrisburg, PA. March 2017 (student presentation)

2016

René Clark, Nicole Sullivan, Mark Tingey. Small but powerful: what can we learn from flies, worms, and yeast? *Science on the Hill*, Saint Joseph's University, Philadelphia, PA. October 2016. **(invited talk)**

René Clark, Hannah Bartling, Marissa Diorio, & Marissa DiPiero. Reproductive behavior in *Drosophila suzukii*. *Sigma Xi Research Symposium*, Saint Joseph's University, Philadelphia, PA. April 2016. (poster presentation)

2013

René Clark. The effect of triggerfish and mussel interactions on coral reproduction. *Undergraduate Research Symposium*, Pennsylvania State University, University Park, PA. April 2013. (poster presentation)

ACADEMIC & COMMUNITY SERVICE

Outreach Chair, Ecology & Evolution Graduate Student Association Board 2020 - 2021
Rutgers University, NJ

Secretary, Ecology & Evolution Graduate Student Association Board 2020 - 2021

Rutgers University, NJ

Treasurer, Ecology & Evolution Graduate Student Association Board 2018-2020
Rutgers University, NJ

Vice President, Biology Graduate Student Council 2016 – 2017
Saint Joseph's University, PA

Rules & Regulations Captain, IFC/Panhellenic Dance Marathon (THON) 2014
Pennsylvania State University

Rules & Regulations Committee Member, THON 2011 – 2013
Pennsylvania State University

SKILLS & INTERESTS

Certified in Adult/Child CPR & AED Administration • Certified PADI Open Water Diver •
Experienced in R, Unix, RegEx, ImageJ, & OpenBUGS • Member of Phi Kappa Phi Honors Society,
Sigma Xi Honors Society, Ecological Society of America & Society for the Study of Evolution •
Reviewer for: *Ecology & Evolution*, *Journal of Animal Ecology*